



Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)				ATTORNEY DOCKET NO. 054030-0066		APPLICATION NO. 10/711,517	
				APPLICANT Nicholas L. ABBOTT, <i>et al.</i>			
				FILING DATE September 23, 2004		GROUP ART UNIT 1641	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
cf		2005/0106562	May 19, 2005				
cf		2005/0079487	April 14, 2005				
cf		2005/0079486	April 14, 2005				
cf		2004/0161800	August 19, 2004				
cf		2003/0099993	May 29, 2003				
cf		2002/0028451	March 7, 2002				
cf		2001/0013294	August 16, 2001				
cf		2001/0004526	June 21, 2001				
cf		2002/0098364	July 25, 2002				
cf		2002/0004216	January 10, 2002				
cf		2002/0055093	May 9, 2002				
cf		2004/0091620	May 13, 2004				
cf		2002/0054188	May 9, 2002				
cf		2002/0142453	October 3, 2002				
cf		2002/0164604	November 7, 2002				
cf		6,858,423	February 22, 2005				
		6,852,285	February 8, 2005				
cf		6,849,321	February 1, 2005				
cf		6,797,463	September 28, 2004				
cf		6,692,699	February 17, 2004				
cf		6,623,107	September 23, 2003				
cf		6,600,076	July 29, 2003				
cf		6,596,346	July 22, 2003				
cf		6,537,499	March 25, 2003				

Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)				ATTORNEY DOCKET NO. 054030-0066		APPLICATION NO. 10/711,517	
				APPLICANT Nicholas L. ABBOTT, <i>et al.</i>			
				FILING DATE September 23, 2004		GROUP ART UNIT 1641	

U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
cf		6,364,459	April 2, 2002	X			
cf		6,288,392	September 11, 2001				
cf		6,284,392	September 4, 2001				
cf		6,284,197	September 4, 2001				
		6,096,386	August 1, 2000				
cf		6,047,095	April 4, 2000				
cf		6,171,802	January 9, 2001				
cf		4,597,942	July 1, 1986				
cf		4,513,034	April 23, 1985				
cf		4,902,106	February 20, 1990				
cf		5,658,491	August 19, 1997				
cf		5,677,195	October 14, 1997s				
cf		5,854,864	December 29, 1998				
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
cf		WO 1997/32202	September 4, 1997		6		
		WO 1997/03496	February 17, 1994		5		
		WO 1998/04652	February 5, 1998		6		
		WO 1997/33737	September 18, 1997		6		
		WO 1997/35198	September 25, 1997		6		
cf		WO 1999/063329	December 9, 1999		7		

Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)		ATTORNEY DOCKET NO.	APPLICATION NO.
		054030-0066	10/711,517
		APPLICANT	
		Nicholas L. ABBOTT, <i>et al.</i>	
		FILING DATE	GROUP ART UNIT
		September 23, 2004	1641
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
ck	1.	Bernard, A., <i>et al.</i> , "Printing Patterns of Proteins," <i>Langmuir</i> 1998, 14(9), 2225-2229.	
ck	2.	Bernard, A., <i>et al.</i> , "Microcontact Printing of Proteins," <i>Adv. Mater.</i> 2000 12:1067-1070.	
	3.	Bernard A., <i>et al.</i>, "Affinity capture of proteins from solution and their dissociation by contact printing." <i>Nat Biotechnol</i> 2001 19:866-869.	
ck	4.	Brake, J.M. and Abbott, N. L., "An Experimental System for Imaging the Reversible Adsorption of Amphiphiles at Aqueous-Liquid Crystal Interfaces" <i>Langmuir</i> 2002 18:6101-6109.	
	5.	Charych D.H., <i>et al.</i> , "Direct colorimetric detection of a receptor-ligand interaction by a polymerized bilayer assembly." <i>Science</i> 1993 261(5121):585-588. Erratum in: <i>Science</i> 1993 261(5127):1375	
	6.	Cornell, B.A., <i>et al.</i> , "A biosensor that uses ion-channel switches." <i>Nature</i> 1997 387(6633):580-3.	
	7.	Dancil, K.S., <i>et al.</i> , "A Porous Silicon Optical Biosensor: Detection of Reversible Binding of IgG to a Protein A-Modified Surface." <i>J. Am. Chem. Soc.</i> 1999 121:7925-7930.	
	8.	Dulcey, <i>et al.</i> "Deep UV photochemistry of chemisorbed monolayers: patterned coplanar molecular assemblies." <i>Science</i> . 1991 252(5005):551-4.	
	9.	Everitt, D.L., <i>et al.</i> , "Evolution of a preferred orientation of polycrystalline grains in obliquely deposited gold films on an amorphous substrate" <i>Physical Rev. B</i> 2000 62:R4833-4836.	
	10.	Geary, J.M., <i>et al.</i> , "The mechanism of polymer alignment of liquid-crystal materials." <i>J. Appl. Phys.</i> 1987 62:4100-4108.	
	11.	Geissler, M., <i>et al.</i> , "Microcontact-Printing Chemical Patterns with Flat Stamps." <i>J. Am. Chem. Soc.</i> 2000 122:6303-6304.	
	12.	Gu, Y., <i>et al.</i> , "Anchoring of liquid crystals on surface-initiated polymeric brushes." <i>Chemphyschem.</i> 2002 3(5):448-51	
	13.	Gupta, V.K. and Abbott, N. L., "Uniform Anchoring of Nematic Liquid Crystals on Self-Assembled Monolayers Formed from Alkanethiols on Obliquely Deposited Films of Gold" <i>Langmuir</i> 1996 12:2587-2593.	
	14.	Gupta, V.K., <i>et al.</i> , "Optical amplification of ligand-receptor binding using liquid crystals." <i>Science</i> . 1998 279(5359):2077-2080.	
	15.	Harnett, C.K., <i>et al.</i> , "Low-energy electron-beam patterning of amine-functionalized self-assembled monolayers" <i>Appl Phys Lett</i> 2000 76:2466-2468.	
	16.	Häussling, L.H. and Ringsdorf, H., "Biotin-functionalized self-assembled monolayers on gold: surface plasmon optical studies of specific recognition reactions." <i>Langmuir</i> 1991 7:1837-1840.	
ck	17.	Hidber, P.C., <i>et al.</i> , "Microcontact Printing of Palladium Colloids: Micron-Scale Patterning by Electroless Deposition of Copper." <i>Langmuir</i> 1996 12:1375-1380.	

Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)		ATTORNEY DOCKET NO.	APPLICATION NO.
		054030-0066	10/711,517
		APPLICANT	
		Nicholas L. ABBOTT, <i>et al.</i>	
		FILING DATE	GROUP ART UNIT
		September 23, 2004	1641
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	18.	Houseman, B.T., <i>et al.</i>, "Maleimide-Functionalized Self-Assembled Monolayers for the Preparation of Peptide and Carbohydrate Biochips." <i>Langmuir</i> 2003 19:1522-1531.	
cf	19.	Kim, S.R., <i>et al.</i> , "Orientations of liquid crystals on mechanically rubbed films of bovine serum albumin: a possible substrate for biomolecular assays based on liquid crystals." <i>Anal. Chem.</i> 2000 72(19):4646-4653.	
	20.	Kim, S.R. and Abbott, N.L. "Manipulation of the Orientational Response of Liquid Crystals to Proteins Specifically Bound to Covalently Immobilized and Mechanically Sheared Films of Functionalized Bovine Serum Albumin" <i>Langmuir</i> 2002 18:5269-5276.	
	21.	Kumar, A. and Whitesides, G.M., "Features of gold having micrometer to centimeter dimensions can be formed through a combination of stamping with an elastomeric stamp and an alkanethiol "ink" followed by chemical etching" <i>Appl. Phys. Lett.</i> 1993 63:2002-2004.	
	22.	Kumar, A., <i>et al.</i> , "Patterning Self-Assembled Monolayers: Applications in Materials Science" <i>Langmuir</i> 1994 10:1498-1511.	
	23.	Lahiri, J., <i>et al.</i> , Patterning Ligands on Reactive SAMs by Microcontact Printing. <i>Langmuir</i> 1999 15:2055-2060.	
	24.	Lin, V., <i>et al.</i> , "A porous silicon-based optical interferometric biosensor." <i>Science</i> 1997 278(5339):840-3.	
	25.	Luk, Y.Y., <i>et al.</i> , <i>Surface Science</i> , 2004.	
	26.	Martin, B.D., <i>et al.</i> , "Fabrication and Application of Hydrogel Stampers for Physisorptive Microcontact Printing." <i>Langmuir</i> 2000 16:9944-9946.	
	27.	Miller, W.J., <i>et al.</i> , "Planar anchoring of nematic 4- <i>n</i> -pentyl-4'-cyanobiphenyl on self-assembled monolayers formed from alkanethiols on gold." <i>Appl. Phys. Lett.</i> 1996 69(13):1852-1854.	
	28.	Ouskova, E., <i>et al.</i> , "Photo-orientation of liquid crystals due to light-induced desorption and adsorption of dye molecules on an aligning surface." <i>Phys Rev E Stat Nonlin Soft Matter Phys.</i> 2001 64(5 Pt 1):051709. Epub 2001 <i>Phys. Rev. E</i> 2001 64:Art. No. 051709 Part 1.	
	29.	Pan, J.J. and Charych, D., "Molecular Recognition and Colorimetric Detection of Cholera Toxin by Poly(diacetylene) Liposomes Incorporating G _{m1} Ganglioside" <i>Langmuir</i> 1997 13:1365-1367.	
cf	30.	Renault, J.P., <i>et al.</i> , "Fabricating Arrays of Single Protein Molecules on Glass Using Microcontact Printing." <i>J. Phys. Chem. B</i> 2003 107:703-711.	
	31.	Renault, J.P., <i>et al.</i>, "Fabricating microarrays of functional proteins using affinity contact printing." <i>Angew Chem. Int. Ed. Engl.</i> 2002 41(13):2320-3.E.	
cf	32.	Shah, R.R. and Abbott, N.L., "Coupling of the Orientations of Liquid Crystals to Electrical Double Layers Formed by the Dissociation of Surface-Immobilized Salts." <i>J. Phys. Chem. B</i> 2001 105:4936-4950.	
cf	33.	Shah, R.R. and Abbott, N.L., "Principles for Measurement of Chemical Exposure Based on Recognition-Driven Anchoring Transitions in Liquid Crystals." <i>Science</i> 2001 293:1296-1299.	

Substitute For Form 1449/PTO		ATTORNEY DOCKET NO. 054030-0066	APPLICATION NO. 10/711,517
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)		APPLICANT Nicholas L. ABBOTT, <i>et al.</i>	
		FILING DATE September 23, 2004	GROUP ART UNIT 1641
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
cf	34.	Shah, R.R. and Abbott, N.L., "Using Liquid Crystals To Image Reactants and Products of Acid-Base Reactions on Surfaces with Micrometer Resolution" <i>J. Am. Chem. Soc.</i> 1999 121:11300-10.	
	35.	Skaife, J. J., <i>et al.</i> , "Influence of Nanometer-Scale Topography of Surfaces on the Orientational Response of Liquid Crystals to Proteins Specifically Bound to Surface-Immobilized Receptors" <i>Langmuir</i> 2001 17:5448-5457.	
	36.	Starkey, C.A., <i>et al.</i> , "Evaluation of the Recombigen HIV-1 Latex Agglutination Test." <i>Clin Microbiol.</i> 1990 28(4):819-22.	
	37.	Tan, J. L., <i>et al.</i> , "Microcontact Printing of Proteins on Mixed Self-Assembled Monolayers." <i>Langmuir</i> 2002 18:519-523.	
	38.	Tercero Espinoza, L.A., <i>et al.</i> , "Orientational behavior of thermotropic liquid crystals on surfaces presenting electrostatically bound vesicular stomatitis virus." <i>Langmuir</i> 2004 20(6):2375-2385.	
	39.	Tingey, M.L., <i>et al.</i> , "Imaging of affinity microcontact printed proteins by using liquid crystals." <i>Langmuir</i> 2004 3;20(16):6818-26.	
	40.	Tingey, M.L., <i>et al.</i> , "Patterned Orientations of Liquid Crystals on Affinity Microcontact Printed Proteins," <i>Adv. Mater.</i> 2004 16(15):1331-1336.	
	41.	Tsukruk, V.V. Rinderspacher and F. Bliznyuk, V.N., "Self-Assembled Multilayer Films from Dendrimers." <i>Langmuir</i> 1997 13:2171, 2171-2176.	
	42.	Wanless, E.J. and Christenson, H.K., <i>J. Chem. Phys.</i> 1994 101:4260-4267.	
	43.	Yan, L., <i>et al.</i> , "Patterning a Preformed, Reactive SAM Using Microcontact Printing" <i>J. Am. Chem. Soc.</i> 1998 120:6179-6180.	
	44.	Yan, L., <i>et al.</i> , "Patterning Thin Films of Poly(ethylene imine) on a Reactive SAM Using Microcontact Printing." <i>Langmuir</i> 1999 15:1208-1214.	
cf	45.	Yaroshchuk, O., <i>et al.</i> , "Three-dimensional orientational order in the bulk and on the surface of polymer films and its effect on liquid-crystal alignment." <i>Phys Rev E Stat Nonlin Soft Matter Phys.</i> 2004 69(1 Pt 1):011702. Epub 2004 Jan 27.	

cf 7/3/06

Substitute For Form 1449/PTO		ATTORNEY DOCKET NO. 054030-0066		APPLICATION NO. 10/711,517		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (February 21, 2006) (Use several sheets if necessary)		APPLICANT ABBOTT, Nicholas L.				
		FILING DATE September 23, 2004		GROUP ART UNIT 1641		
U.S. PATENT DOCUMENTS						
EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	NONE					
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	NONE					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
cf	S1.	CHUNG, Doo-Han et al., <i>Alignment Mechanism of Nematic Liquid Crystal on Rubbed Polymer Surface Studied by Subsequent Processes of Rubbing and Photoalignment</i> , Japanese Journal of Applied Physics, Vol. 39, Part 2, No. 3 A/B, March 15, 2000, pp. L185-L187.				
	S2.	COCCHI, J.M. et al., <i>Comparison Between Direct Binding, Competition and Agglutination Assays in the Characterization of Polyclonal Anti-Idiotypes Against Anti-HBs Human Monoclonal Antibodies</i> , Journal of Immunological Methods, Vol. 160, 1993, pp. 1-9.				
	S3.	GUPTA, Vinay K. et al., <i>Using Isotropic, Nematic, and Smectic Fluids for the Study of Self-Assembled Monolayers Formed from Alkanethiols on Gold</i> , Chemistry of Materials, Vol. 8, Issue 7, 1996, pp. 1366-1369.				
	S4.	HARLOW, Ed and LANE, David, <i>Antibodies – A Laboratory Manual</i> , Cold Spring Harbor Laboratory, 1988, Contents pp. iii-ix.				
	S5.	KIM, Seung-Ryeol and ABBOTT, Nicholas L., <i>Rubbed Films of Functionalized Bovine Serum Albumin as Substrates for the Imaging of Protein-Receptor Interactions Using Liquid Crystals</i> , Advanced Materials, Vol. 13, Issue 19, October 2, 2001, pp. 1445-1449.				
cf	S6.	KUBY, Janis, <i>Uses for Monoclonal Antibodies</i> , Immunology, W.H. Freeman and Company, 1992, Chapter 7, pp. 147-151.				
	S7.	MIKAMI, Naoko and HONMA, Masao, <i>Ferroelectric Liquid Crystal Alignment Films Utilizing Poly(DL-amino acids) and Fibrous Proteins</i>, Kohunshi Ronbunshu, Vol. 56, Issue 6, 1999, pp. 396-400.				
cf	S8.	RENAULT, Jean Philippe et al., <i>Fabricating Microarrays of Functional Proteins Using Affinity Contact Printing</i> , Angewandte Chemie-International Edition, Vol. 41, Issue 13, 2002, pp. 2320-2323.				
	S9.	ROGERS, John A. et al., <i>Printing Process Suitable for Reel-to-Reel Production of High-Performance Organic Transistors and Circuits</i> , Advanced Materials, Vol. 11, Issue 9, 1999, pp. 741-745.				
	S10.	SCHMITT, F.J. et al., <i>Surface Plasmon Studies of Specific Recognition Reactions at Self-Assembled Monolayers on Gold</i> , Thin Solid Films, Vol. 210/211, Issue 1-2, April 30, 1992, pp. 815-817.				
	S11.	TIZARD, Ian R., <i>Veterinary Immunology: An Introduction</i> , W.B. Saunders Company, 1996, Contents pp. xv-xxiv.				
cf	S12.	VAN OSS, Carel J. and VAN REGENMORTEL, Marc H.V., <i>Immunochemistry</i> , Marcel Dekker, Inc., 1994, Contents pp. v-vii.				



INFORMATION DISCLOSURE CITATION IN AN APPLICATION (February 21, 2006) (Use several sheets if necessary)		ATTORNEY DOCKET NO. 054030-0066	APPLICATION NO. 10/711,517
		APPLICANT Wisconsin Alumni Research Foundation	
		FILING DATE September 23, 2004	GROUP ART UNIT 1641
		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) (cont.)	
cf	S13.	XIA, Younan et al., <i>Microcontact Printing with a Cylindrical Rolling Stamp: A Practical Step Toward Automatic Manufacturing of Patterns with Submicrometer-Sized Features</i> , Advanced Materials, Vol. 8, Issue 12, 1996, pp. 1015-1017.	
	S14.	YANG, Jean Y. et al., <i>Binary Self-Assembled Monolayers: Spectroscopy and Application to Liquid Crystal Alignment</i> , Microchemistry – Spectroscopy and Chemistry in Small Domains, 1994, pp. 441-454	
cf	S15.	YANG, Kun-Lin et al., <i>Contact Printing of Metal Ions onto Carboxylate-Terminated Self-Assembled Monolayers</i> , Advanced Materials, Vol. 15, Issue 21, November 4, 2003, pp. 1819-1823.	

cf

7/3/06